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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/901,531	07/09/2001	Brian C. Barnes	2000.054600 7123	
23720	7590 06/16/2006	EXAMINER		INER
WILLIAMS, MORGAN & AMERSON			BROWN, CHRISTOPHER J	
10333 RICHI HOUSTON,	MOND, SUITE 1100 TX 77042		ART UNIT	PAPER NUMBER
110 001 01.,			2134	
		DATE MAILED: 06/16/2006		

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)		
	09/901,531	BARNES ET AL.		
Office Action Summary	Examiner	Art Unit		
	Christopher J. Brown	2134		
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet with the c	orrespondence address		
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D. - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period. - Failure to reply within the set or extended period for reply will, by statul Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATION 136(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from the, cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).		
Status				
1)⊠ Responsive to communication(s) filed on <u>06 A</u> 2a)⊠ This action is FINAL . 2b)□ Thi 3)□ Since this application is in condition for allowed closed in accordance with the practice under	s action is non-final. ance except for formal matters, pro			
Disposition of Claims				
4) Claim(s) 1-21 is/are pending in the application 4a) Of the above claim(s) is/are withdra 5) Claim(s) is/are allowed. 6) Claim(s) is/are rejected. 7) Claim(s) 5 and 16 is/are objected to. 8) Claim(s) are subject to restriction and/	awn from consideration.			
Application Papers				
9) The specification is objected to by the Examin 10) The drawing(s) filed on is/are: a) accomposed and applicant may not request that any objection to the Replacement drawing sheet(s) including the correct of the oath or declaration is objected to by the Examination.	cepted or b) objected to by the edrawing(s) be held in abeyance. Section is required if the drawing(s) is ob	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).		
Priority under 35 U.S.C. § 119				
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: Certified copies of the priority documents have been received. Certified copies of the priority documents have been received in Application No Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 				
Attachment(s)	" []	(770.440)		
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date 	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal F 6) Other:			

DETAILED ACTION

Response to Arguments

Applicant's arguments filed 4/06/2006 have been fully considered but they are not persuasive.

Applicant argues that Nay US 5,237,567 does not teach authentication and signaling a security violation. The examiner argues that Nay does teach authentication (verification of data) using the same method as the invention, a checksum of sent data or codes, (Nay Col 37 lines 35-50). Nay teaches discovering errors in the data which is a signal that there has been a violation in the data that was sent over the bus, (Col 37 line 46-50). This violation could be the security of the data integrity for instance, or that the data had been modified.

Applicant argues that Nay does not provide proper motivation to be combined with Roeck US 6,594,305. The examiner asserts that one of ordinary skill in the art would recognize the benefit and motivation to use the method of insuring data integrity, and prevent errors to secure a system and make it reliable.

MPEP 706.02 (j) First, there must be some suggestion or motivation, either in the references themselves or *in the knowledge generally available to one of ordinary skill in the art*, to modify the reference or to combine reference teachings(emphasis added).

Art Unit: 2134

The previous rejection is included below for the applicant's convenience:

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1, 7-10, 11, 12, 18-21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Roeck US 6,594,305 in view of Nay US 5,237,567.

As per claims 1, 8, 12, 19, and 21, Roeck teaches a hardware unit (modem) adapted to receive an incoming signal over a communications channel, (Col 7 lines 60-65). Roeck teaches that the modem accepts control codes over the communications channel (messages), (Col 8 lines 33-37). Roeck teaches that the unit communicates with assigned transmission parameters (power, freq, and time slot), (col 8 line 37).

Roeck does not teach authentication codes, or security violations.

Nay teaches generating an authentication code (hash or check sum) from data and transferring the data and authentication code to a unit, (Col 37 lines 35-51). If the codes are inconsistent, the unit signals a security violation, (Col 37 line 39). It would have been obvious to one of ordinary skill in the art to combine the communication system of Roeck with the authentication mechanism of Nay to prevent message tampering and improve security.

Art Unit: 2134

As per claims 7, and 18, Nay teaches that the program generates authentication code based on data (hash, checksum), (col 27 lines 40-45).

As per claim 9 Nay teaches the processing unit comprises a computer, (Col 37 line 43).

As per claim 10 Nay teaches the processor is coupled to a bus, (Col 37 lines 40-44). Nay teaches an expansion card coupled to the bus, (Col 27 lines 60-63).

As per claim11, and 20, Roeck teaches that the hardware unit is adapter to prohibit at least some communication over the communication channel in response to an error (Col 8 lines 55-60).

Claims 2, 3, 13, and 14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Roeck US 6,594,305 in view of Nay US 5,237,567, in view of Spelman US 5,680,458.

As per claims 2, 3, 13, and 14 Spelman discloses sending authentication code, hidden, out of band, (Col 4 lines 14-20).

It would have been obvious to one of ordinary skill in the art ro modify the previous Roeck-Nay system with the out of band messaging of Spelman to assure that the message has not been tampered with (Spelman Col 4 lines 31-34).

Claims 4, and 15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Roeck US 6,594,305 in view of Nay US 5,237,567 in view of Mergard US 5,881,248

As per claims 4, and 15, Mergard discloses use of the unused portions of the bus, (Col 1 lines 45-52). It would have been obvious to modify the Roeck-Nay system with Mergard because the utilization improved bus performance.

Claims 6, and 17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Roeck US 6,594,305 in view of Nay US 5,237,567 in view of Whitmire US 6,115,817 As per claims 6, and 17 Witmire discloses use of cryptography to send data over a network, the recipient decrypts all of the data including codes, (Col 1 lines 48-60). It would have been obvious to modify the previous Roeck-Nay system with the cryptography of Whitmire to increase security.

Allowable Subject Matter

3. Claims 5 and 16 are objected to due to their dependence on rejected independent claims.

Currently claims 5, and 16 are allowable over the prior art of record.

Neither Roeck, Nay, or any of the prior art of record shows "wherein the processing unit includes a data bus adapted to transfer data in frames having a number of fixed slots, and the software driver includes program instructions adapted to transfer the authentication code using a frame having more slots than the fixed number of slots".

Application/Control Number: 09/901,531 Page 6

Art Unit: 2134

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Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Christopher J. Brown whose telephone number is (571)272-3833. The examiner can normally be reached on 8:30-6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jaques Louis Jaques can be reached on (571)272-6962. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 2134

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Christopher J. Brown

6/12/06

